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DERWENT-WEEK: 200172

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TITLE: Tray apparatus of slim type disc drive

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PATENT-ASSIGNEE: LG ELECTRONICS INC[GLDS]

PRIORITY-DATA: 1999KR-0052692 (November 25, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 2001048140 A	June 15, 2001	N/A	001	G11B 017/02

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
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INT-CL (IPC): G11B017/02

ABSTRACTED-PUB-NO: KR2001048140A

BASIC-ABSTRACT:

NOVELTY - A tray apparatus of slim type disc drive is provided to improve total performance of drive and expand a life by minimizing surface friction and abrasion of a flexible print circuit and prevent torsion/bending of it, so improving capacity of data transmission.

DETAILED DESCRIPTION - A tray(53) is installed to be movable front and rear at a main frame(51) and makes a loading and an unloading a disc. A spindle motor(59) supplies power to rotate the disc which is loaded on the tray(53). A spindle motor print circuit board(60) controls an operation of the spindle motor(59). A flexible print circuit(64) connects the spindle motor print circuit board(60) electrically to a main board print circuit board(65). The tray(53) is composed of an upper plate which a disc placing part for placing the disc is formed in a concave and a side plate(55) which is formed at both side of the left and right of the upper plate and allows a front and rear moving of the tray(53). A flexible print circuit protection device is equipped at the lower side of the upper plate of the tray(53) which is contact with the flexible print circuit(64) when opening and closing of the tray(53), and minimizes surface friction and wear of the flexible print circuit(64) by edge part of the disc placing part and prevents a damage of the flexible print circuit(64).

CHOSEN-DRAWING: Dwg. 1/10

TITLE-TERMS: TRAY APPARATUS SLIM TYPE DISC DRIVE

DERWENT-CLASS: T03

EPI-CODES: T03-F01;

